

WHAT IS CLAIMED IS:

1. A digital recording/playback apparatus comprising:

data storage means for storing stream data having  
5 a predetermined data format and including a plurality  
of data blocks;

playback control means for performing control such  
that a changed read start position of the stream data  
is determined, and a present read start position is set  
10 at a leading position of a data block containing the  
determined changed read start position; and

playback means for playing back the stream data  
stored in said data storage means from the changed read  
start position set by said playback control means.

15 2. An apparatus according to claim 1, wherein the  
control by said playback control means is executed  
after one of pause, fast forward, and rewind is  
performed.

20 3. An apparatus according to claim 1, wherein the  
stream data includes the plurality of data blocks, and  
header information containing the data block sizes and  
the number of the plurality of data blocks.

4. An apparatus according to claim 1, wherein the  
predetermined data format has a fixed length.

25 5. An apparatus according to claim 1, wherein the  
predetermined data format has a non-fixed length.

6. A digital recording/playback apparatus

comprising:

data storage means for storing stream data having a data format including a plurality of different data blocks;

playback control means for performing control such that a changed read start position of the stream data is determined, a read start position of a present data block of first type is set at a leading frame position of a data block of first type which contains the determined changed read start position, a data block of second type is determined on the basis of the data block of first type, and a read start position of a present data block of second type is set at a leading frame position of the determined data block of second type; and

playback means for playing back the stream data stored in said data storage means from the read start position of the data block of first type and the read start position of the data block of second type set by said playback control means.

7. An apparatus according to claim 6, wherein time stamp information is attached to each of the plurality of types of data blocks, and

25 said playback control means determines the data  
block of second type on the basis of the time stamp  
information attached to the data block of first type  
which contains the changed read start position, and the

time stamp information attached to the data block of second type.

8. An apparatus according to claim 6, further comprising:

5 FIFO buffers which store the plurality of types of data blocks of the stream data, stored in said data storage means, for each data block type; and

information tables which are formed in one-to-one correspondence with said FIFO buffers, and each of which stores the buffer address and time stamp information of a data block stored in a corresponding FIFO buffer, and

10 said playback control means determines the data block of second type by referring to the time stamp information.

15 9. An apparatus according to claim 6, wherein the control by said playback control means is executed after one of pause, fast forward, and rewind is performed.

20 10. An apparatus according to claim 6, wherein the plurality of types of data blocks include audio data and video data.

11. A stream data playback method comprising steps of:

25 determining a changed read start position of stream data including a plurality of data blocks; setting a present read start position at a leading

position of a data block which contains the determined changed read start position; and

playing back the stream data from the changed read start position.

5       12. A stream data playback method comprising:

determining a changed read start position of stream data including a plurality of types of data blocks;

10      setting a read start position of a present data block of first type at a leading position of a data block of first type which contains the determined changed read start position;

15      determining a data block of second type on the basis of the data block of first type which contains the changed read start position;

setting a read start position of a present data block of second type at a leading position of the determined data block of second type; and

20      playing back the stream data from the read start position of the data block of first type and the read start position of the data block of second type.

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